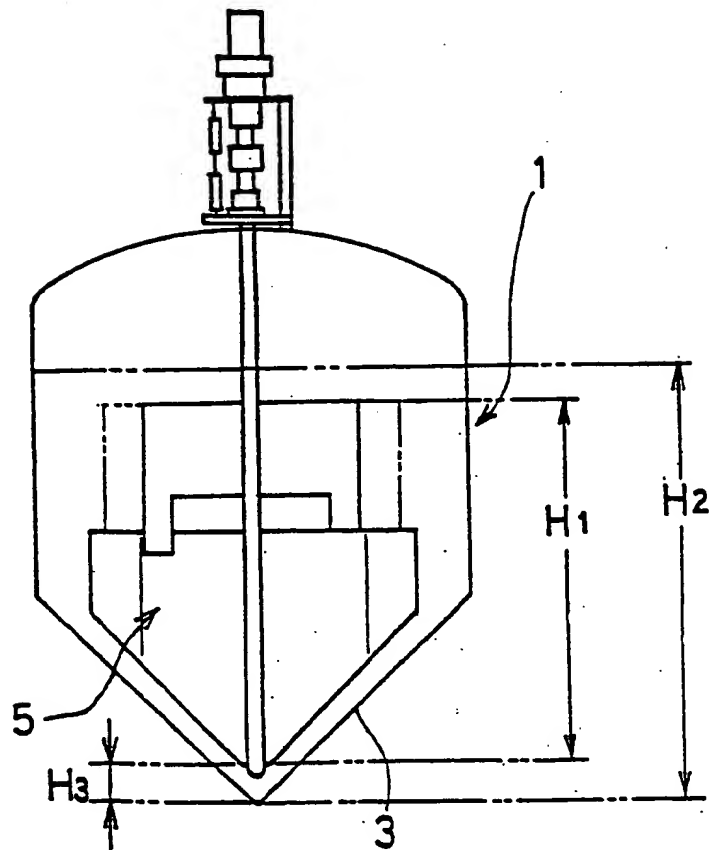
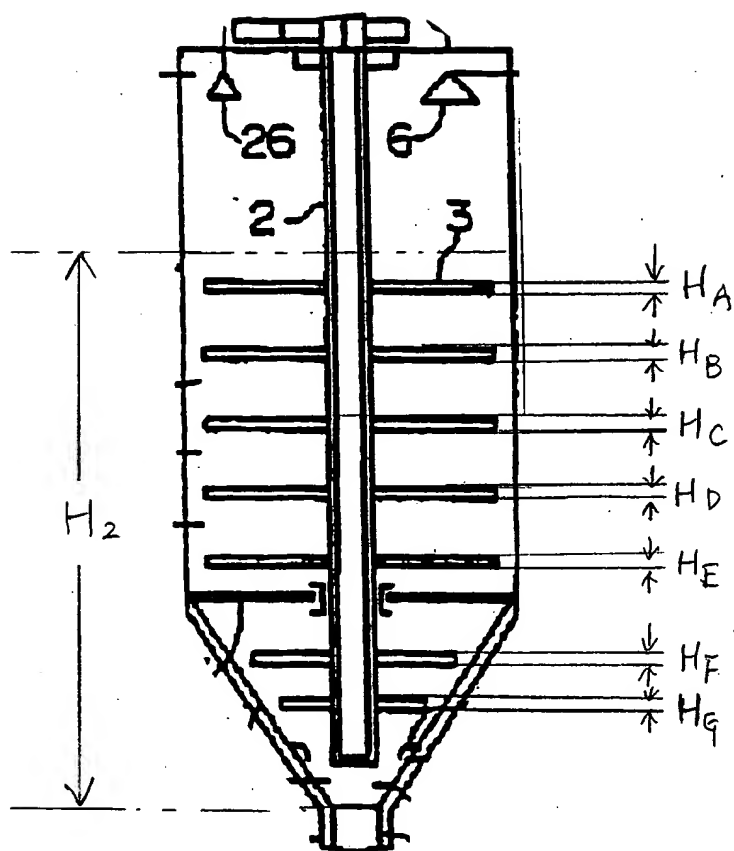


Reference Illustration 1





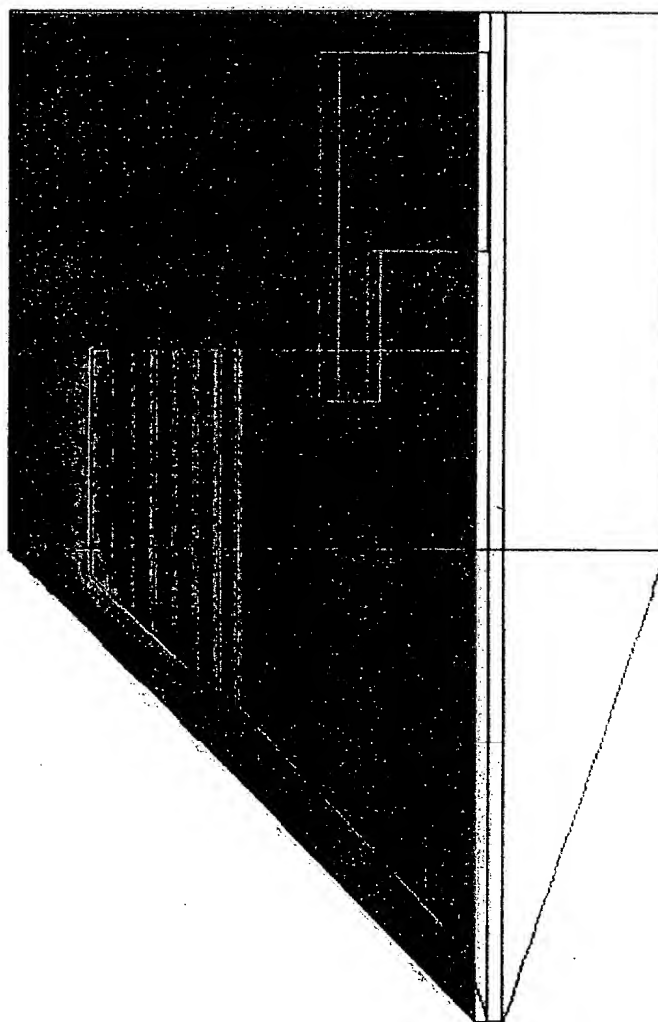
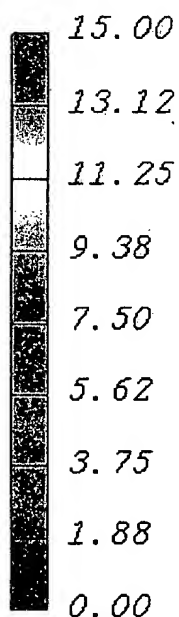
Reference Illustration 2





References 3-A

SHEAR RATE(1/S)

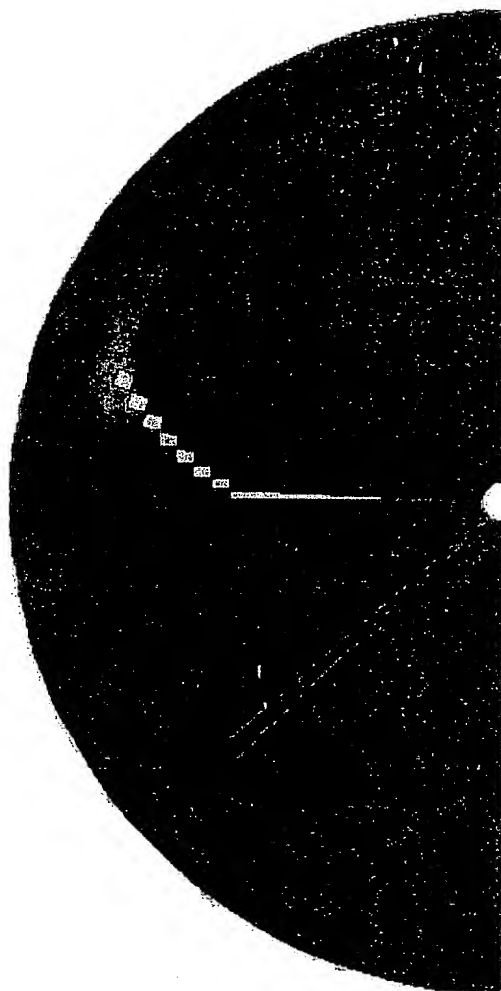
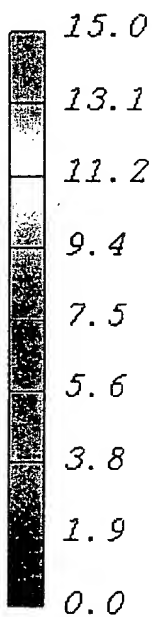


FZ($d/D=0.83$), LOWER-BLADE

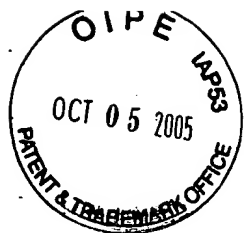


References 3-B

SHEAR RATE (1/S)

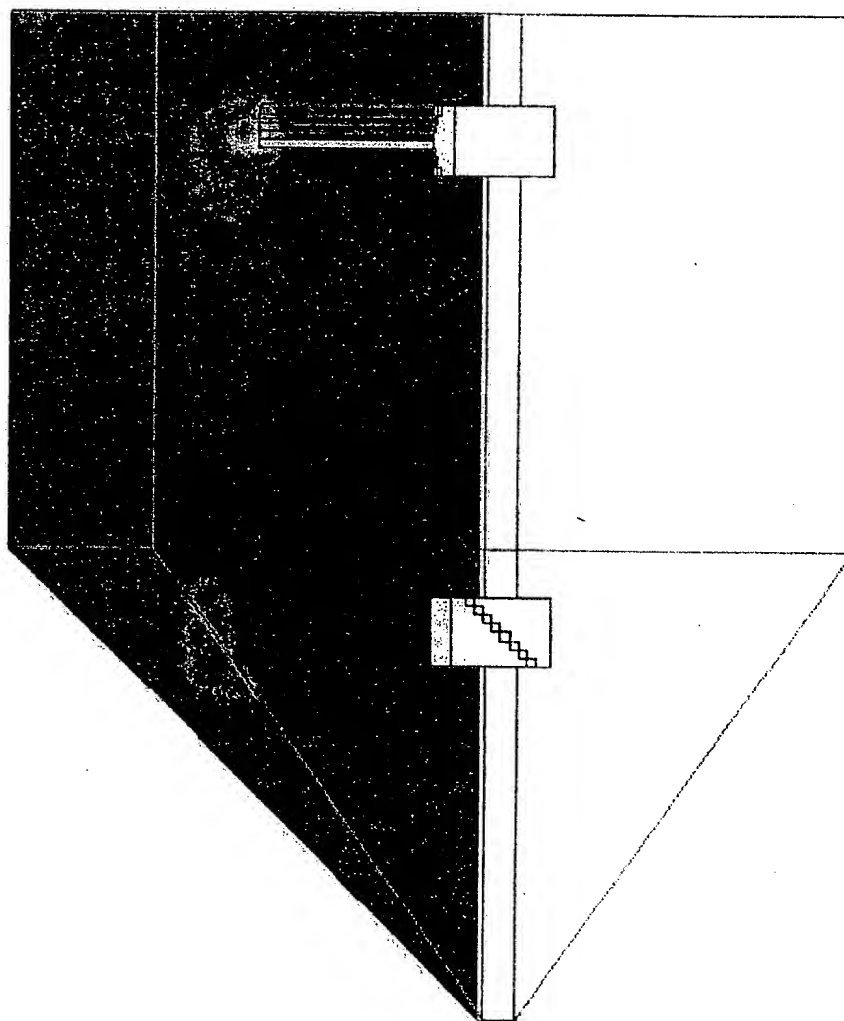
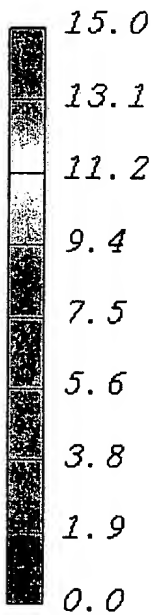


FZ ($d/D=0.23$), LOWER-BLADE



References 3-C

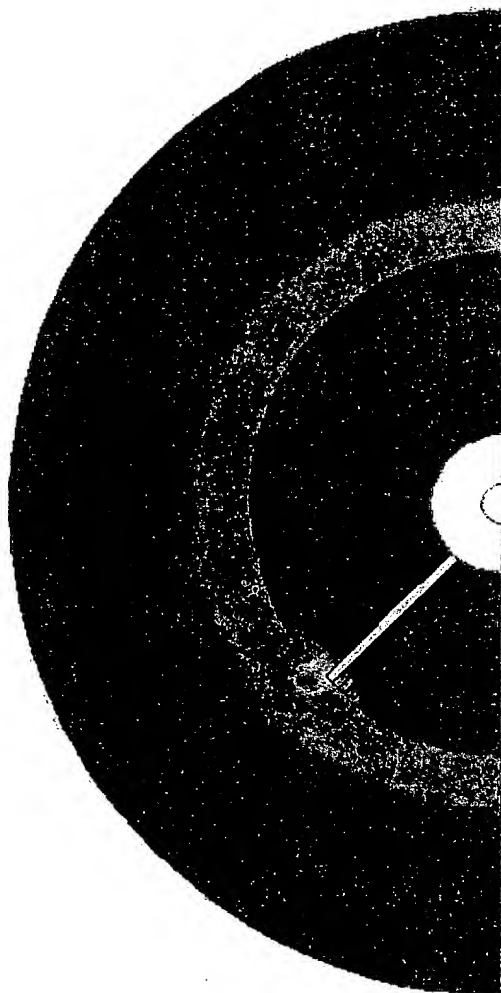
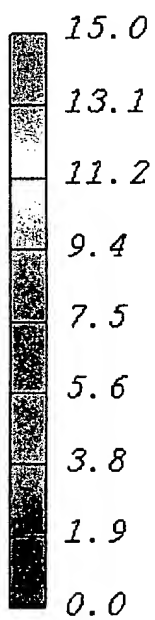
SHEAR RATE(1/S)



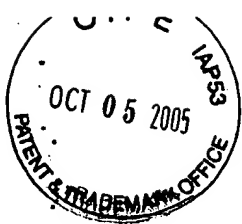
PP(d/D=0.5), UPPER-BLADE

References 3-D

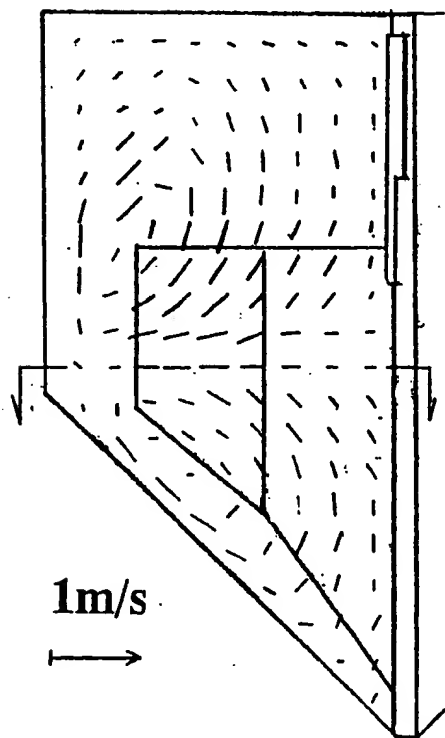
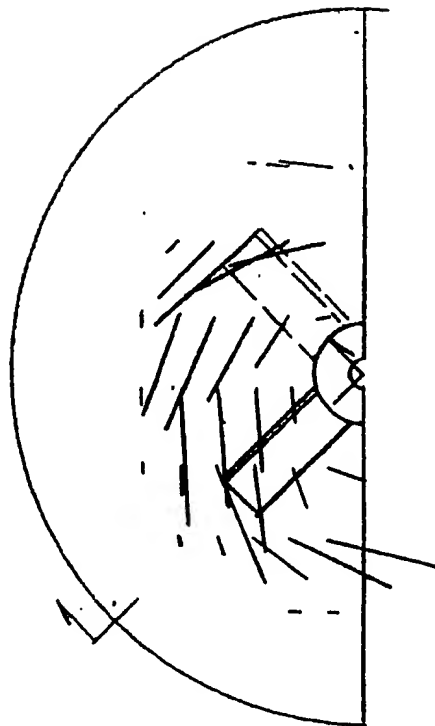
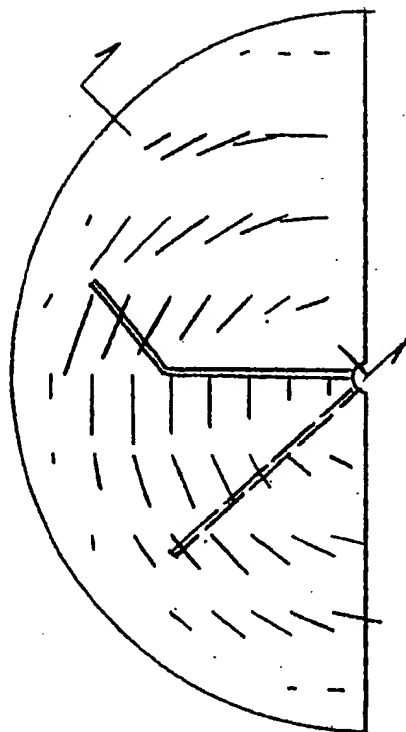
SHEAR RATE(1/S)



PP(d/D=0.5), UPPER-BLADE

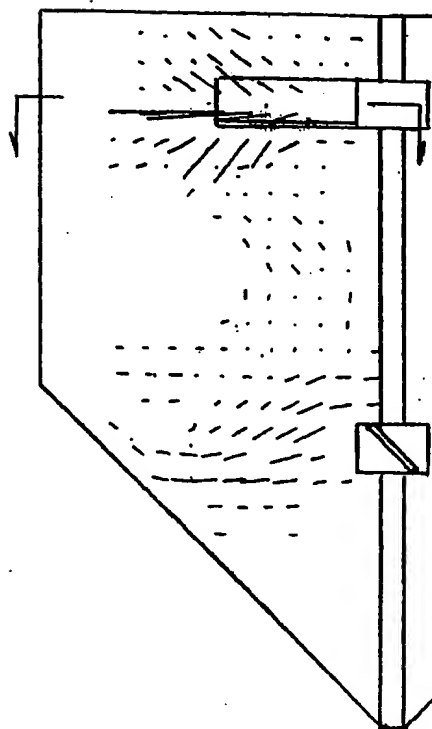


References 4



1m/s
→

Fullzone 10 rpm



PBT 60 rpm

Numerical simulation ~ Flow pattern ~
5 m³ Yeast tank